

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A film-type catalyst for production of a tertiary amine, which is used in producing a tertiary amine from an alcohol and a primary or secondary amine as the starting material;

wherein said film-type catalyst comprises catalyst particles bound to one another via a synthetic resin as a binder;

wherein said particles form a three-dimensional network structure via the binder on a substrate;

wherein said film-type catalyst has a thickness of 500 μm or less and a pore volume of not less than 0.5 mL/m^2 ,

whereby ~~[[the]]~~ a diffusion rate in the film-type catalyst layer is increased due to said three-dimensional network structure, and the mass transfer between the inside and outside of the film-type catalyst can be promoted thereby utilizing the whole of the catalyst and simultaneously suppressing the excessive reaction of an intermediate reaction product in the inside of the catalyst;

wherein the inside of the catalyst is a site of reaction for producing said tertiary amine; and

wherein the synthetic resin is in an amount of 20 to 80 parts by weight relative to 100 parts by weight of a powdery catalyst active substance on the basis of the starting material.

2. **(Original)** The film-type catalyst according to claim 1, which has a thickness of 100 μm or less.

3. **(Original)** The film-type catalyst according to claim 1 or 2, which comprises copper.

4. **(Currently Amended)** The film-type catalyst according to claim 1, which is fixed on the surface of ~~[[a]]~~ the substrate.

5. **(Previously Presented)** The film-type catalyst according to claim 1, which has a pore volume of 0.5 to 30 mL/m^2 .

6. **(Original)** The film-type catalyst according to claim 5, wherein the synthetic resin comprises thermosetting resin.

7. **(Original)** The film-type catalyst according to claim 5 or 6, wherein the synthetic resin comprises phenol resin.

8. **(Previously Presented)** The film-type catalyst according to claim 4, wherein the substrate is a metal foil.

9. **(Previously Presented)** The film-type catalyst according to claim 4, wherein the substrate is a honeycomb structure.

10. **(Currently Amended)** A process for producing a tertiary amine, which comprises a step of reacting an alcohol with a primary or secondary amine inside a film-type catalyst having a thickness of 500 μm or less and a pore volume of not less than 0.5 mL/m²,

wherein said film-type catalyst comprises catalyst particles bound to one another via a synthetic resin as a binder;

wherein said particles form a three-dimensional network structure via the binder on a substrate;

whereby ~~[[the]]~~ a diffusion rate in the film-type catalyst layer is increased due to said three-dimensional network structure, and the mass transfer between the inside and outside of the film-type catalyst can be promoted thereby utilizing the whole of the catalyst and simultaneously suppressing the excessive reaction of an intermediate reaction product in the inside of the catalyst; and

wherein the synthetic resin is in an amount of 20 to 80 parts by weight relative to 100 parts by weight of a powdery catalyst active substance on the basis of the starting material.

11. **(Cancelled)**

12. **(Previously Presented)** The process according to claim 10, wherein the film-type catalyst has a thickness of 100 μm or less.

13. **(Previously Presented)** The process according to claim 10, wherein the film-type catalyst comprises copper.

14. **(Currently Amended)** The process according to claim 10, wherein the film-type catalyst is fixed on the surface of [[a]] the substrate.

15. **(Previously Presented)** The process according to claim 14, wherein the substrate is a metal foil.

16. **(Previously Presented)** The process according to claim 14, wherein the substrate is a honeycomb structure.